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AUSTRALIA

Officers' Movements:- Mr. I.S.R. Munro (CSIRO, Cronulla)has proceeded to Europe, passing en route through Djakarta on 17th April.

CEYLON

Fisheries Development Committee:- It is reported that a Committee consisting of the Senior Officers of the Fishery Department and the Fisheries Experts who are now in Ceylon has been formed to formulate schemes for the development of fisheries and to review the progress of the schemes already under execution.

HAWAII

Officers' Movements:- Dr. J.L. Kask, who was transferred from his position as Assistant Director of P.O.F.I. to the Fish and Wildlife Service in Washington, has been replaced by Mr. D.L. Mc Kerman. formerly Director of Research of the Oregon Fish Commission.

Pacific Oceanic Fishery Investigations:- The P.O.F.I. Quarterly Report ending 15th Febuary, 1952, mentions among other items that additional data collected on wind and temperature conditions along the Equator in connection with the theory of wind stress as a causative agent of convergence north of the Equator, suggest a difference in the production-stimulating conditions of the eastern and western Pacific, the eastern appearing to be richer.

Morphometric studies of the head-lengths of yellowfin tuna indicate the likelihood that the yellowfin tuna population forms a continuous band along the Pacific Equator.

The definite availability of tuna in the Hawaiian waters demonstrated by the research vessel "Hugh M. Smith" along with other information which is being collected, is likely to encourage new commercial fisheries for Hawaii.

HONGKONG

Fish Marketing:- The Reports of the Director of Marketing for January and February, 1952, show that the fish market was steady for the first three weeks in January after which, on account of the Chinese New Year celebration and the appearance of cold weather towards the later part of February, there was reduction in the fishing operations and fish sales. Though the Mackerel Scad season had started well in January, it did not continue to be good. Golden Thread, Lizard fish, Red Sea Bream and Horse Head were other main items

of catch. The landings were only slightly higher than those of the same months last year. During the two months, 76,850 piculs of fish (59,097 fresh and 17,753 salt-dry) were marketed through the Fish Marketing Organization. The trade in salt-dried fish has continually dropped, mainly due to the import control measures implemented by China, and an improvement cannot be expected until the opening up of new export markets creates a demand. Among the power-driven fishing vessels, one class IV Native-Type Purse Seiner was licensed in January, but four vessels were reverted to other purposes. The fleet now consists of 137 vessels.

INDIA

Appointments:- Dr. B. N. Chopra has been appointed Fisheries Development Advisor to the Government of India.

National Plan:- In accordance with the outline of the Planning Commission and the Indo-U.S.A. agreement for technical co-operation, the Central and State Governments in India have formulated comprehensive schemes for the development of marine and inland fisheries. They involve the training of a large number of Indian fishermen and other workers, employment of foreign experts, supply of equipment such as fishing vessels, ice factories, cold storage plants and insulated road and rail refrigerated vans. Mechanisation of fishing operations, and expansion of the Central Deep-Sea Fishing Station as well as the Marine and Inland Research Stations including Pond-culture, Riverine and Lacustrine work, and Estuarine fisheries are also contemplated.

Bombay Fisheries:- Encapsuled shark-liver oil began to be produced in March, 1952, at the Technological Laboratory of the Bombay Fisheries Department. With the obvious advantage of absence of "fishy odour", the "pearls", as the capsules are known, are in growing demand.

Survey of possible spawning grounds has revealed a few, exploitable fry grounds of *Labio fimbriatus*. In the absence of other fast-growing carps in the State, these local seed sources will be utilised for stocking purposes.

A scheme is afoot for setting up a Marine Biological Station at Okha on the Okhamandal Coast, well-known for the wealth of its fauna and flora.

Orissa:- SWAMP RECLAMATION.— With assistance from the Government of India, the Fisheries Department of Orissa has been reclaiming swampy areas and converting them into productive fish farms. An area of 50 acres was reclaimed in 1949-50, 200 acres in 1950-51 and 98 acres in the current year. Each fish farm has provision for nurseries and stocking ponds and for taking up field research problems in connection with culture of economic carps The largest fish farm, with an area of 200 acres, is nearing completion at Kosalgang near Bhubaneswar, which is the capital of Orissa State.

FISHERMEN'S CO-OPERATIVES.— The Co-operatives have been, in general, showing an all-round improvement in their work and in membership. Out of the total exports of fish to the neighbouring States from the Chilka Lake area, which amounted to about 36,872 maunds (1 md. = 82 lbs.) in the period August-December, 1951, nearly half was handled by the Co-operatives. While the local consumption during this period remained more or less the same as in the corresponding period last year, viz., about five thousand maunds, the export showed an increase of over 17 % of that of the previous year.

Saurashtra:- The current fishing season in most parts of Saurashtra started in full swing in November, 1951. In December, the catch consisted mainly of Bombay Duck, of which 146.16 tons were caught in the month. Pomfret fishing was somewhat poor during the month. Prawn fishing in the Gulf of Kutch was also poor, owing to lack of rain resulting in relatively small flow of river water in the estuarine area. Fishing boats which are licensed in Saurashtra number 1,216. Seven hundred and eighty of these were in operation in December.

INDONESIA

Officers' Movements:- Dr. J.S. Zaneveld has left Government Service in Indonesia and returned to the Netherlands. He can be contac'ed at Wildhoelaan 19, the Hague, Netherlands.

Dr M.A. Lieftinck of the Netherlands is resuming his former position as Director, Museum Zoologicum, Bogoriense, Bogor, Java

JAPAN

Officers' Movements:- The announcement was recently made in Washington, D.C. by the State Department of the appointment of Mr. W. C. Neville to the post of Fisheries Attache, U.S.A. Embassy, Tokyo. The Department said, "indicative of the importance with which the U.S.A. regards its fisheries relations with Japan, this new post, the first assignment of its kind, has been created and Mr. Neville is the first to bear the title of Fisheries Attache. He will be responsible for observing and reporting on fisheries affairs in Japan and for dealing with fisheries problems of mutual concern to the countries" Mr Neville has been in Japan since 1947 and served as Deputy Chief and later. Chief of the Fisheries Division, Natural Resources Section, GHQ, SCAP. Prior to this assignment he had served with the Fish and Wildlife Service and the former Bureau of Fisheries. He was also observer at the 2nd and 3rd IPFC Meetings at Cronulla (Australia), 1950, and Madras (India), 1951, respectively.

MALAYA

Officers' Movements:- Mr. D. W. Le Mare, Director of Fisheries, Federation of Malaya and Singapore, left Singapore on April 29 for Fiji to survey the needs of the South Pacific; thereafter he visited Noumea, New Caledonia, to represent U.K. at the confer ence of the South Pacific Commission. He will thence proceed on leave. In his absence, Mr. M.K. Soong will act as Director, and Mr. J. S. Scott as assistant to the Acting Director.

Dr. C. B. Taylor, who previously worked in the U. K. Freshwater Research Institute and the Rothampstead Experimental Station, arrived in Penang to take up the post of Director of the Fisheries Research Institute in Balik Pulau.

Fisheries Activities:- There were 10,376 fishing gears in operation during October, with a rise of 631 over September, chiefly due to an increase in the number of lines, drift nets and cast nets. November witnessed a fall of 430, mainly in lines, seine nets, lift nets and cast nets. The totals of fish landings were 118,510 pkls. in October and 106,334 pkls. in November.

Piracy:- Two fishing boats belonging to a towkay in Malacca and one iced fish kotak returning from Indonesian waters were pirated and all the belongings including a 25 h.p. outboard motor were taken away. Police authorities have been informed.

Freshwater Fisheries:- The reconstucted pond at Tanjong Lumpur, Pahang, was stocked in October with 189 Tilapia which have since been observed to thrive well. Several hundreds of Tilapia fingerings were collected from the Seremban Lake in November, and and were distributed to the Sharikat Bekerjasama Memolihara Ikan, Mukim Peradong, Jelebu. Chinese Carp and Tilapia were observed to be thriving very well in the Chohong pond. The ponds at Rim and Simpang have been stocked with Chinese Carp fry.

Trade with Indonesia:- Imports into Malacca from the Sumatran Islands continued on the decline. The figure for October was 1,810 pikuls, which was further reduced to 1,697 in November.

General:- The cockle fishermen in Kuala Selangor have a new association with membership so far of 191 in the place of the old one which has been closed following the discovery

of gambling among the members. These fishermen and those of Pasir Penambang and Sungu yu are showing interest in cockle-culture in the sites alloted for the purpose in these three areas.

Fishermen in Kijal, Trengganu, are organising a collection among themselves to pay for blasting the rocks littering the channel in the rocky south of the village.

PHILIPPINES

Oceanographic Studies in the Manila Bay:- The oceanographic staff of the Bureau of Fisheries has made a one year's preliminary study, by regular monthly cruises from February, 1951, to January, 1952, of some of the oceanographic features of the Manila Bay, one of the most important fishing areas of the Philippines.

Inter-provincial Convention:- At a convention of the Governors and Municipal Mayors of Laguna and Rizal, and the Director and the Technical Staff of the Bureau of Fisheries, certain problems concerning the Laguna de Bay fisheries were discussed. Among the decisions arrived at were that the existing close season period for "Kanduli" (*Arius manilensis*) be continued, and that the "Kaladakad" (dredge net) fishing for snails be restricted to day-time in order to avoid the destruction of other gear like "Kilang" (trawl line) and "Pante" (gill net).

MSA Programme:- Among the items provisionally agreed upon in connection with the fish-culture development projects contemplated under the Mutual Security Aid Programme is the securing of the services of an engineer to attend to the engineering aspects of pond-culture work.

Candaba swamps survey:- An aerial survey of the Candaba swamps is reported to be planned preparatory to their development into fish-ponds and rice-fields.

Loans for Fish-farmers:- Under a special financing programme for promoting fish-culture in the inland waters of the Philippines, the Rehabilitation Finance Corporation has ear-marked five million pesos to be distributed as loans to prospective fish-farmers. In order to extend assistance to as many small fish-pond owners as possible, the financing which will be against security of leaseholds, will be limited to a maximum of 25 hectares of leasehold per applicant and to 800 pesos per hectare, to be issued in 5 releases.

FAO Director-General's visit:- The Fisheries Bureau was host to Mr. Norris E. Dodd and party at an excursion to the fortress of Corregidor on the M/S "Fisheries", exploratory and research vessel of the Bureau. Besides the Officers of the FAO, the Fisheries Bureau, the M.S.A., the Department of Agriculture of the Government of Philippines and the Philippine National Committee of FAO were represented. The party also visited the Dagatdagatan Saltwater Fisheries Experimental Station.

INDO-PACIFIC FISHERIES COUNCIL

3rd Executive Committee Meeting:- The 3rd (1951-1952) Meeting of the Exco may be held in Manila at about the end of July.

Fourth Meeting of the Council:- The 4th meeting of the Council will be held in Manila from 23rd October to 7th November. Besides business transactions, suitable technical papers will be handled and two symposia, one on "Socio-economics" and the other on "The Application of Science to Fisheries" will be held. Notice of technical papers offered for inclusion are to reach the Secretariat before 23rd July and the complete text of every technical paper before 23rd September.

Council Appointments:-

Administrative Correspondents:-

Australia	-	The Secretary, Department External Affairs.
Burma	-	The Secretary, Government of Union of Burma, Ministry of Agriculture and Forests.

France - Mons. R. Serene.
Indonesia - Mr. G.M. Charijie Kasuma.
U.K. (for Federation of Malaya & Singapore, N. Borneo & Sarawak)-- U.K. Liaison Officer with U.N. Organizations in the Far East, (Miss M.S. Russell);
(for Hong Kong)-- Director of Agriculture, Fisheries & Forests, Hong Kong.
U.S.A. - Mr. O.E. Sette.
Vietnam - Mons. Le-Huu-Ky.

Bibliographic Correspondents:-

Australia - Mrs. L.M. Willings (through Department External Affairs).
Burma - Officer-in-charge, Fisheries Bureau.
France - Mons. R. Serene.
Indonesia - Ir. A. Jansen.
Pakistan - Dr. H.K. Bhatti.
U.K. (for Federation of Malaya & Singapore, N. Borneo and Sarawak)-- Mr. D.W. Le Mare;
(for Hong Kong)-- Director of Agriculture, Fisheries & Forests, Hong Kong.
U.S.A. - Mr. O.E. Sette.
Vietnam - Mons. Le-Huu-Ky.

Editorial Committee for the preparation of Handbooks:-

Australia - Mr. J.D. Rochford (through Department of External Affairs).

Committee for Handbook on Processing of Fish:-

India - Dr. K.C. Saha.

Committee for Compilation of Catalogue of Fishing Gear:-

U.K. - Mr. T.W. Burdon.

Taxonomy Sub-Committee:-

India - Director, Zoological Survey of India.

Statistical Working Group:-

U.K. - Mr. T.W. Burdon.

Bibliographical Panel for "Western-Sector Bibliography of Indo-Pacific Region":-

Burma - U Ba Kyaw.

Working Group to Study Problems of Trade in Fishery Products:-

India - Mr. V. Ranganathan.

Food Technology & Marketing Sub-Committee:-

India - R. Venkataraman.
Philippines - Mr. V. Uyenco,
Mr. J.I. Sulit.

Recent Releases:

Occasional Papers:

52/1 — The Work of the Australian Commonwealth Scientific and Industrial Research Organization's Division of Fisheries (based on the Annual Report for the year 1950/51).

52/2 — Preliminary Bibliography of Fishing Gear and Methods employed in the Region covered by Indo-Pacific Fisheries Council.

52/3 — An annotated Bibliography on Culture of Milk-fish *Chanos chanos* (Forskal).

52/4 — Availability and Approximate Costs of Special Equipment for Fisheries Research.

Library Accession Lists:- Nos. 8, 9, 10, 11 & 12.

FOOD AND AGRICULTURE ORGANIZATION

Officers' Movements:- Dr. G. L. Kesteven, presently Regional Fisheries Officer for Asia and the Far East, and Secretary of the Indo-Pacific Fisheries Council will be proceeding on transfer to Headquarters at the beginning of August.

Dr. Cecil Miles of British nationality, who has been for a long time in Colombia, is visiting Headquarters prior to taking up Dr. Kesteven's post. He received his earlier education in England, took his Ph. D. and D. Sc. in Colombia and was engaged in further studies in Harvard, the U.S. National Museum, Washington, and the American Museum of Natural History of New York. Primarily a systematist in Ichthyology, he has 7 papers on the subject and has been Ichthyological Advisor to the Division of Natural Resources of the Government of Colombia. He has also held positions with the Dorada Railway, the British Consular Agency in South America and the British Intelligence Service in Canada. He is a Fellow of the Linnean Society and the Zoological Society of London, and a member of the American Society of Ichthyologists and Herpetologist, and the International Game and Fish Association and Fellow of the Institute of Transport, London. Well-trained in secretarial procedure, he has also had experience with legislation in fisheries

matters.

Mr. W.H Schuster, Acting Chief of Biology Branch, Fisheries Division, FAO, Rome, spent two days at Bangkok en route to Djakarta for the Brackish Water Fish-culture Seminar. He had spent over a fortnight in Pakistan discussing Technical Assistance problems and looking into questions of fish-culture development in rice-fields and improving fish-rearing in tanks. Whilst in Bangkok he had discussions with the Regional Office Fisheries Division on general fisheries matters and in particular on fish-culture work as envisaged by the IPFC Fish-culture Sub-committee.

Fisheries Statistics:- The Provisional List of authors and subjects for the First Meeting on Fisheries Statistics, which is being held in Copenhagen during the last week of May, shows a large number of working papers on various aspects by different experts in the subject.

World Fisheries Abstracts—Free:- Radio Rome broadcasted on 26th March, 1952, the inauguration of a new service of the World Fisheries Abstracts. Despite the value of the "Abstracts", many have so far been prevented from subscribing to this periodical, especially because of currency difficulties. To solve this problem, FAO has worked out a plan, according to which any fisheries technologist requiring FAO's *World Fisheries Abstracts* may, henceforth, acquire a free subscription in exchange for technical information. Those who are interested may address the "F.A.O. of the United Nations, Viale delle Terme di Caracalla, Rome, Italy" expressing interest and willingness to contribute to F.A.O. information on special subjects which may be asked for from time to time. This exchange arrangement will not affect normal subscription

Improvement of Fishing Boats:- on the 29th of January, Radio Rome announced some of the measures taken by the FAO towards mitigating the prevailing inadequacy of fishing boats and equipment, a condition which is largely responsible for the unsatisfactory exploitation of the world's sea fisheries. Popular beliefs such as that the narrower the boat, the faster it goes, have been proved to be not always true. Fishing boats properly designed by naval architects have saved as much as 30% of fuel, and at the same time increased the hold space as well as the sea-worthiness. Jan Olof Traung's paper on "Improving the Design of Fishing Boats" (vide FAO Fisheries Bulletin, 1951, 4, 1-2) has evoked interest, and there is a growing demand for the continuation and extension of such improvements. The FAO is compiling the best available information on the subject for the benefit of the Member Countries. Four FAO experts will be advising African and Asian countries on the improvement of their fishing boats. Incidentally it has been shown that many traditional boats in the East are well-designed, and another six craft experts are to advise on the mechanisation of such boats. Similar technical assistance may be offered not only to the technically less-developed countries, but also to those who are far ahead in other fields.

Expanded Technical Assistance

India:- Mr. F. Botke, lately of the Indonesian Fisheries Service, has been appointed Inland Fisheries Specialist in the FAO/ETAP Programme in West Bengal, India, for one year from May 1952.

Mr. Botke has had experience of fresh- and brackish-water fisheries for over 20 years and has done very good work on weed-control. Recently he was advisor to the Head of Indonesian Inland Fisheries Service.

Ceylon:- Mr. A Glanville is continuing his project in Ceylon leading to the mechanization of gear and small craft.

Pakistan:- The report on the Fish Harbour Project by Messrs. van der Berg and van Pel, which has been published, contains complete plans and specifications for the harbour as well as for market and other buildings on the quay.

Thailand:- Dr. S. W. Ling continues his work on fish rearing in inlands waters.

Indonesia:- The six weeks' Seminar on Brackish-water Fish culture, sponsored by the Government of Indonesia in co-operation with

FAO, was inaugurated on May 1st, in Bogor. Eighteen nominees, representing China, India, Indonesia, Japan, Pakistan, Philippines, Thailand, and Vietnam are attending. The Seminar will extend up of 15th June.

Saudi Arabia:- Dr. el Saby, Chief of the Egyptian Fisheries Department, and Mr. Kroiter of the FAO Regional Office in Cairo have been assisting the Saudi Arabian Government in Egypt in negotiating the charter of an Egyptian vessel for exploratory survey work in the Red Sea.

Somaliland:- A survey of the pelagic fish resources off Northern Italian Somaliland is on hand under the charge of Mr. H. Ogilvie, a commercial fisherman from California who handles the fishery engineering phases and Mr. A. Fraser-Brunner of U.K. serving as Fishery Biologist.

Israel:- Mr. A. E. Hofstede of the Netherlands is being employed as Fishery Biologist to Israel to assist in the development of the fisheries in the Sea of Galilee (Lake Tiberius) and other interior natural waters and the culture of exotic species in artificial ponds. Mr. G. Napier of the U.S.A. is being appointed to help in fishing pelagic species of fish in the Mediterranean waters off Israel.

Mr. Haim Ilan and Mr. Shmuel Sarig, fellowship-holders from Israel under the FAO Technical Assistance Programme have been on a tour through Indonesia, Thailand and India for studying fish-culture practises. Whilst in Bangkok, they had informative discussions with the Fisheries Divison of the FAO Regional Office and the Thai Fisheries Department. Arrangements were made for them to visit the Bangkhen Experimental Station and fish markets in Bangkok including the new market under construction. A consignment of grass crap was despatched by air to Israel for introduction to their inland waters and it has been reported to have arrived safey.

Iraq:- Recruitment of experts for assistance in managing interior fisheries and in the evaluation of a deep-sea fishing enterprise is in progress.

Other Countries:- In addition to the above, a number of projects under the FAO/ETAP Programme are on hand in other countries like Brazil (fishing methods and utilization —Dr. J. C. Bottemanne of the Netherlands), Equador (fishery biology—Dr. E. C. Schweiger of Peru), Haiti (fish-culture—Mr. S. Y. Lin of China), Chile (coastal fisheries — Dr. E. M. Poulsen and Mr. J. Fridhjof of Denmark), etc.

Vacancy:- The ETAP Projects of FAO are requiring experts in many fields. New fields will be represented in agreements under negotiation or to be negotiated. The tenure of positions is usually one year, though in some cases it may be as short as three months. Persons interested in positions with the programme are urged to address the Fisheries Division, FAO of the United Nations, Viale delle Terme di Caracalla, Rome, Italy.

UNESCO

Statistical Course:- The UNESCO-sponsored International Statistical Institute in Calcutta is offering a free six months' course beginning July, 1952. Those who wish to apply may obtain additional information and application forms from any of the UNESCO Offices.

Copies of "Nature" of the war period:- The UNESCO clearing house for Publications announces that copies of "Nature" for the war period, 1939-45 are available from (a) the publishers who can supply the issues still in print for 1939-53, (b) from ORBIS, Export and Import Department, Smecky 30, Prague II, Czechoslovakia and (c) as microfilm reproductions from the Photographic Department of the Royal Society of Medicine, Daring yard, 67 New Bond St., London W. 1.

Reproduced Periodicals:- UNESCO Bulletin for Libraries. Vol. V, No. 10, lists over 5,000 volumes of scientific and other periodicals reproduced in various countries and now available.

GENERAL

Radio-equipped Fishing Vessel:- A 245-feet-long factory-trawler, radar- and radio-equipped, with an aperture in the stern for drawing in the catch, is reported to be under construction at Aberdeen. It will have a 300 h. p. electric-motor-operated winch and machinery for washing, filleting, skinning and beheading fish and for weighing and packing them into trays for quick-freezing. The storage hold will maintain a temperature of 5° F. The offal will be fed by conveyer-belts to a fish-meal plant. Liver-oil also will be extracted. The vessel can stay at sea for long periods, but with its long-range communication facilities, it can keep in touch with the shore and other vessels.

American Hydrobiology Committee:- Under the auspices of the American Institute of Biological Sciences, a committee consisting of Dr. R. W. Hiatt (Chairman), A. D. Hosler, C. L. Hubbs, D. Merriman, W. E. Ricker, and W. R. Taylor, has been organized in Washington, D. C. Its first task is the preparation of a directory of the facilities and personnel in marine and fresh-water hydrobiology in North America. Next, a confidential report on the present day status of hydrobiological research and on programmes for the immediate future is to be compiled for use of the office of Naval Research and other concerned agencies.

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